

**Tescom**  
CORPORATION

# The "Little Torch"

*Features New Controllable*

## Needle Point Flame



**FLAME**  
TEMPERATURE  
ADJUSTABLE  
*up to 6300° f.*

*The Versatile, Accurate Performer*

## Welds

with incomparable precision. Use to fusion weld an unlimited range of materials from less than .001" copper to 16 gauge steel, to plastics, ceramics and glass. The perfect solution to modern micro-joining problems in every field.

## Brazes

even the tiniest components with accuracy unsurpassed. Ideal for precision bonding of high temp. alloys. Facilitates modern metal fabrications even in microscopic dimensions. An advanced precision instrument for unexcelled precision heat joining.

## Solders

with amazing versatility. Does hard or soft soldering. Offers just the right temperatures for perfect adhesion and capillary action. Maneuvers easily in the tightest places. The best idea in soldering since the beginnings of miniaturization.

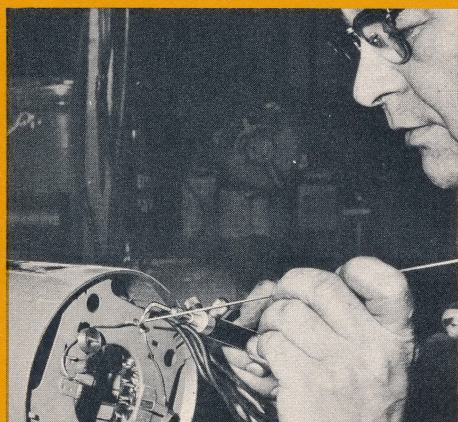
## Heats

any material to extraordinary temperatures, offering an unlimited array of flame settings and sizes. Provides critical control for thread thin flames with up to 6300° F. temperatures. The big answer to any tiny heating need.

**Tescom**  
CORPORATION

**Instrument**  
DIVISION

# The Versatile Torch With 1001 Applications



Silver soldering the brush shunts of an electric motor



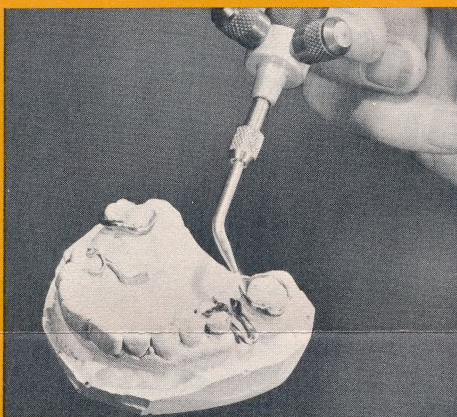
Repairing copper terminal straps on a jet engine rotor



Repairing the broken base plate on a fishing reel



Silver soldering a special sight ramp to a rifle barrel

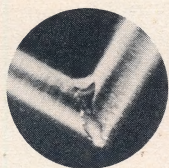
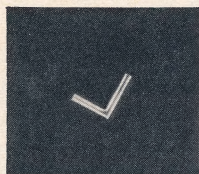


Welding the stainless alloy clasp of a partial denture

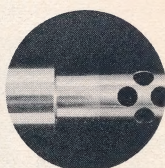
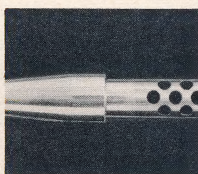


Soldering a broken die cast clasp on a gold bracelet

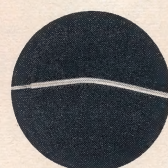
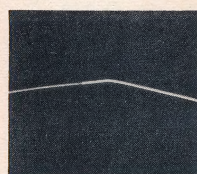
## FUSION WELD—Platinum



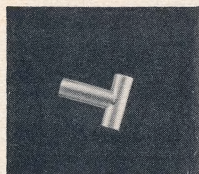
## SILVER BRAZE—Stainless to Beryllium



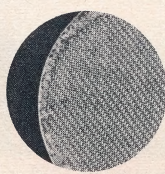
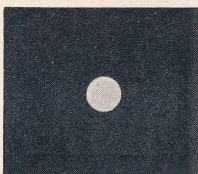
## SILVER BRAZE—Copper to Platinum



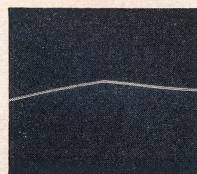
## SOLDER—Platinum (Gold Filler)



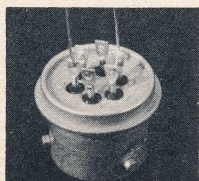
## GOLD BRAZE—Stainless Mesh



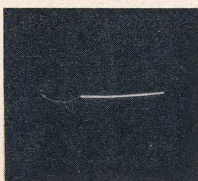
## FUSION—Copper to Copper



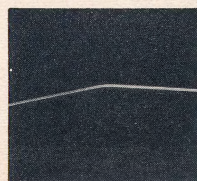
## SILVER BRAZE—Gold Plated Stainless

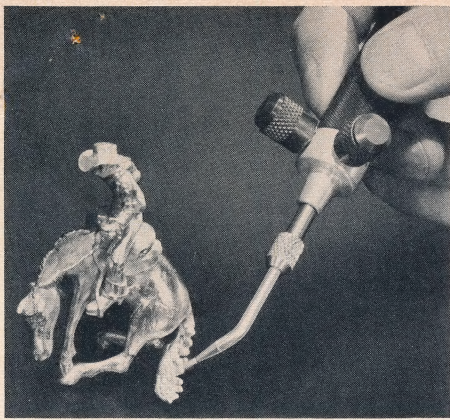


## FUSION—1 mil to 21 mil Platinum

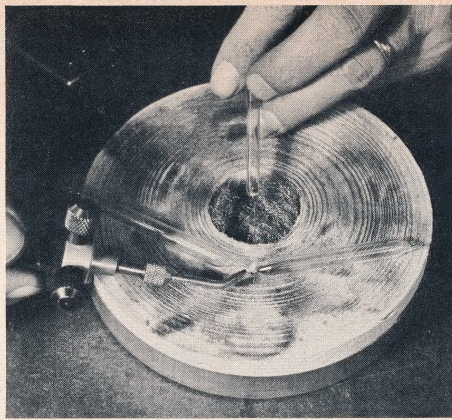


## FUSION—Gold to Platinum

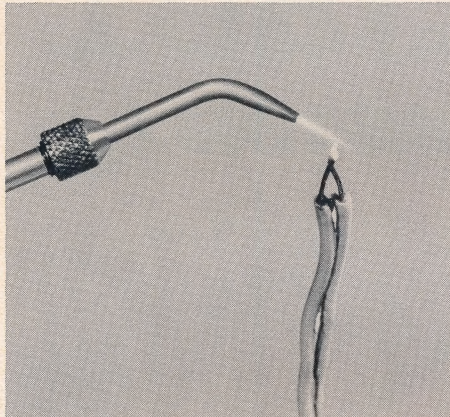




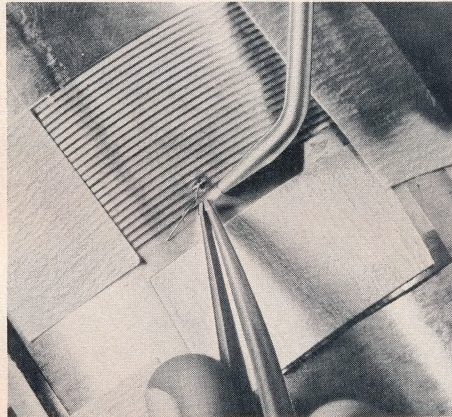
Giving the final touches to a piece of silver sculpture



Fusing glass tubing with tiny glass tube as welding rod



Joining the high temperature junction of a thermocouple



Soldering copper leads to 1/2 mil copper on a printed circuit

## Ideal for Laboratories, Research and Development, Electronic Production and Repair, Dental Labs, Jewelry Making and Miniature Machinery

The Little Torch is a precision engineered, highly versatile instrument capable of doing seemingly impossible tasks with ease. It can use four different kinds of fuels—acetylene, hydrogen, LP or natural gas—and provides different flame characteristics with each. It produces a perfectly controlled, completely stable flame with temperatures up to 6300° F., that's hot enough to melt commercially weldable metals, glass, or even ceramics.

No wonder the Little Torch is being used to do an infinite variety of jobs from experimental laboratory work to aircraft maintenance; and, without fail users are being surprised by the Little Torch's capacity for doing impossible jobs with facility.

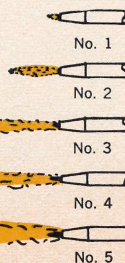
### IDEAL FOR ANY MINIATURE FABRICATION OR MAINTENANCE JOB

Applications for the Little Torch are limited only by the user's imagination. For small, even microscopic work, in hard to reach places, and small spaces . . . the Little Torch provides versatility, maneuverability and a needle point flame for precision welding, brazing, soldering or heating. And the Little Torch is safe to use. It is backed by Tescom Corporation's reputation for superior products, dependability, and the experience gained through 45 years of producing this type of equipment.

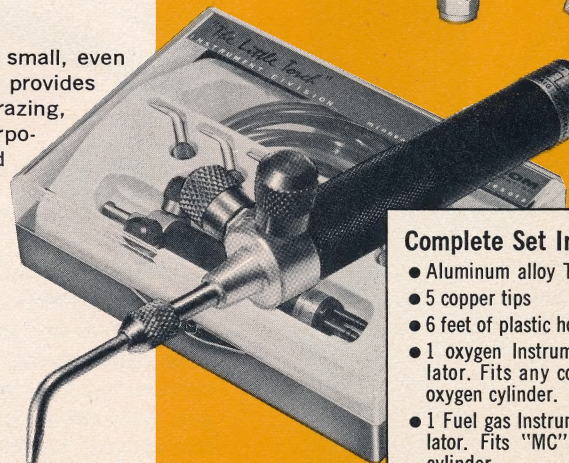
### TIP DATA AND FLAME CHARACTERISTIC CHART

TIP SIZE	ORIFICE SIZE	Gas Pressures (P.S.I.)		CONSUMPTION C.F.H. Ea. Gas
		Oxygen	Fuel Gas	
1	.003	2	2	.023
2	.006	3	3	.087
3	.011	3	3	.215
4	.020	3	3	1.625
5	.029	4	4	2.540

Flame drawings are symbolic representations of neutral settings for each tip. Obviously each tip has a variety of settings for particular needs.



So tiny it can weld a .002" copper or steel wire inside a recessed cigaret filter without scorching the paper—proof of the Little Torch's precision flame control.



23-1003 TORCH SET

### Complete Set Includes:

- Aluminum alloy Torch Body
- 5 copper tips
- 6 feet of plastic hose
- 1 oxygen Instrument Regulator. Fits any commercial oxygen cylinder.
- 1 Fuel gas Instrument Regulator. Fits "MC" Acetylene cylinder.

NOTE: If the torch is to be used on larger cylinders, order the kit #23-1001, oxygen regulator H743, and fuel gas regulator H745. Specify the kind of fuel gas to be used and type of cylinder fittings (CGA). Line regulators for piped installation are available.

# MINIATURE APPLICATIONS



## Introducing A Precision TORCH for 1001

Needle Point  
FLAME



**Tescom**  
CORPORATION

### The "Little Torch" Handy Kit #23-1001

Includes aluminum alloy torch body, 5 copper tips, 6 feet of durable plastic hose, and complete instructions. Packaged in attractive plastic case. Every item—valves, connections and hose—is color-keyed for convenience and safety.

## Complete Outfit with Cylinders

A full independent unit. Consists of Little Torch Kit (as above); two regulators, one for oxygen, one for fuel gas; oxygen and acetylene cylinders; and carrying caddy. Each cylinder will hold approximately 10 cu. ft. of gas, (provide up to 435 hours of operation). Net weight: 30 lbs.

- 23-1004 Outfit for oxygen & acetylene.
- 23-1004-H Outfit for hydrogen & oxygen.

**Tescom**  
CORPORATION

**Instrument**  
DIVISION

2633 S.E. 4th St., Minneapolis, Minn. 55414

PRINTED IN U.S.A.

## FREE INSPECTION CERTIFICATE

★ NO OBLIGATION ★ 30 DAY FREE TRIAL

Gentlemen:

I accept your offer to try the fine precision LITTLE TORCH. When I am completely satisfied with the 30 day FREE Trial, please invoice me. I am checking below the outfit I wish to try:

☐ Kit #23-1003 — \$143.50

Includes Torch, 5 Tips, Hoses, Oxygen and Acetylene Regulators.

☐ Kit #23-1001-A — \$66.50

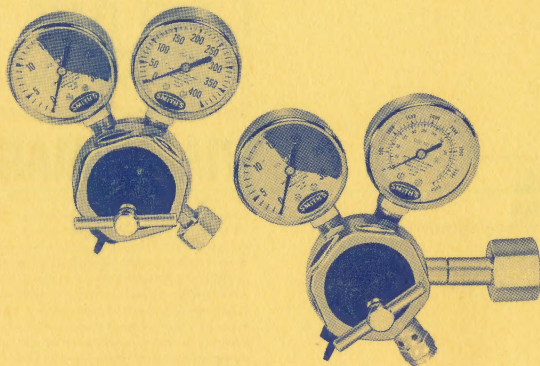
Includes Torch, 5 Tips, Hoses, Adaptors.

☐ Kit #23-1004 — \$258.00

Includes #23-1003 with 10 cu. ft. oxygen and acetylene cylinders and carrying case.

I further understand that Tescom will pay ALL of the Freight and Insurance and that if I am not completely satisfied, I may return the set at Tescom's expense and pay nothing.

CREDIT REFERENCE \_\_\_\_\_



Set  
#23-1003  
Shown

Nelson's Systems  
Box 1546  
Poughkeepsie, N. Y. 12603

1038-1

## TESCOM CORPORATION INSTRUMENT DIVISION

**BUSINESS REPLY MAIL**

NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

POSTAGE WILL BE PAID BY



**FIRST CLASS**

PERMIT NO. 1660  
MINNEAPOLIS, MINN.

**VIA AIRMAIL**



# INSTRUMENT DIVISION

TESCOM CORPORATION  
2633 S.E. 4th Street  
Minneapolis, Minnesota 55414  
Phone 331-1311



**10 Day Free Trial**



**Special Free Gift**



**Choice of 3  
Different Models**

Gentlemen:

Thank you for your inquiry about our new Little Torch.

With it you can fusion weld any item from a tiny filament less than .002 inches in diameter to full 16 guage steel. You can braze with extreme accuracy; solder the tiniest components using hard or soft solder; and you can heat any material to extremely high temperatures with a completely controlled flame.

For you in your research and development work, the LITTLE TORCH means new exactitude in the assembly of test apparatus and the fabrication of any test piece -- even micro-miniature prototype. THE LITTLE TORCH develops flame temperatures up to 6300 degree F. It offers critical flame control for precision bonding of any component from tiny filaments less than 1 mil thick to 16 gauge stainless steel.

The LITTLE TORCH uses oxygen with acetylene, LP-gas, natural gas or hydrogen for fuel. Thus it offers four different kinds of flames, each with its own individual flame characteristics.

This amazing miniature instrument offers you the opportunity for quick, inexpensive alteration of laboratory equipment, precise construction of specialty thermocouples, the elimination of reading errors derived from apparatus . . . and it provides extreme flexibility and unexcelled reliability to help you in any basic research, applied research and development problem.

Because the LITTLE TORCH is so new, it may not be currently available at your instrument supply house. We want you to enjoy the advantages of this miniature torch right now. So we invite you to use the LITTLE TORCH for a 10 Day Free Trial period to prove to yourself that it can provide unlimited versatility for all your fusing and bonding needs.

In addition, just for trying the LITTLE TORCH we will send to you, absolutely FREE, a handsome GUILTON rechargeable search flashlight which facilitates working in confined places.

To receive your free gift, the enclosed Free Inspection Certificate must be returned.

Just return the enclosed order and we will ship you, by return mail, the complete LITTLE TORCH KIT with regulators, ready for use.

If you are not 100% satisfied, return the LITTLE TORCH within 10 days without obligation. The flashlight is yours to keep.

Sincerely,

*Russell Dahlner*

Russell Dahlner  
Sales Manager

*P.S. About your free Guilton flashlight. This is the new revolutionary flashlight which requires no batteries and is simply recharged by plugging into any wall outlet. You'll receive this handsome flashlight for any Little Torch order. It's our way of saying, Thank You for your interest.*



To receive your free gift, the enclosed Free Inspection Certificate must be returned.